

U.S. PATENT AND  
TRADEMARK OFFICE  
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FIG. 1

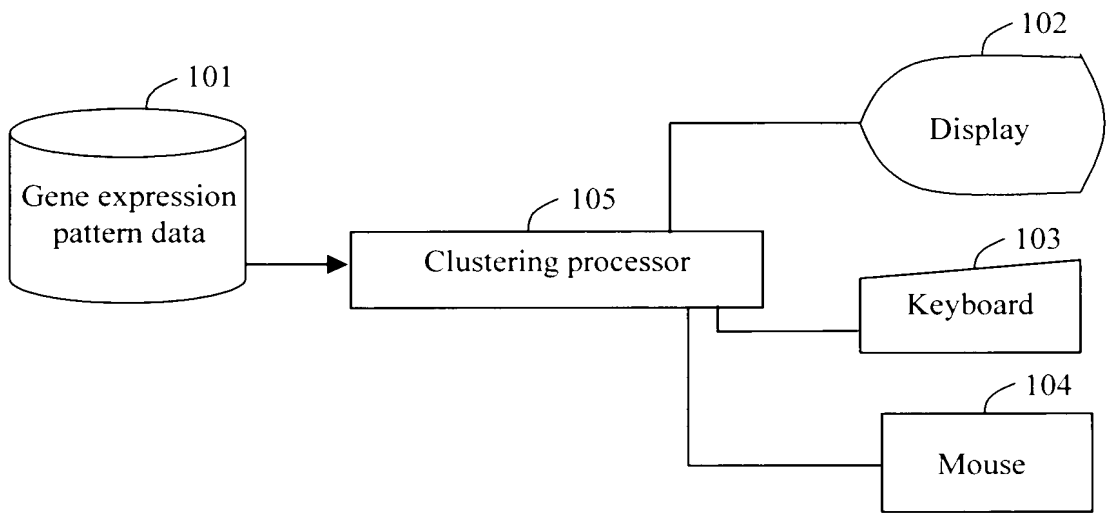
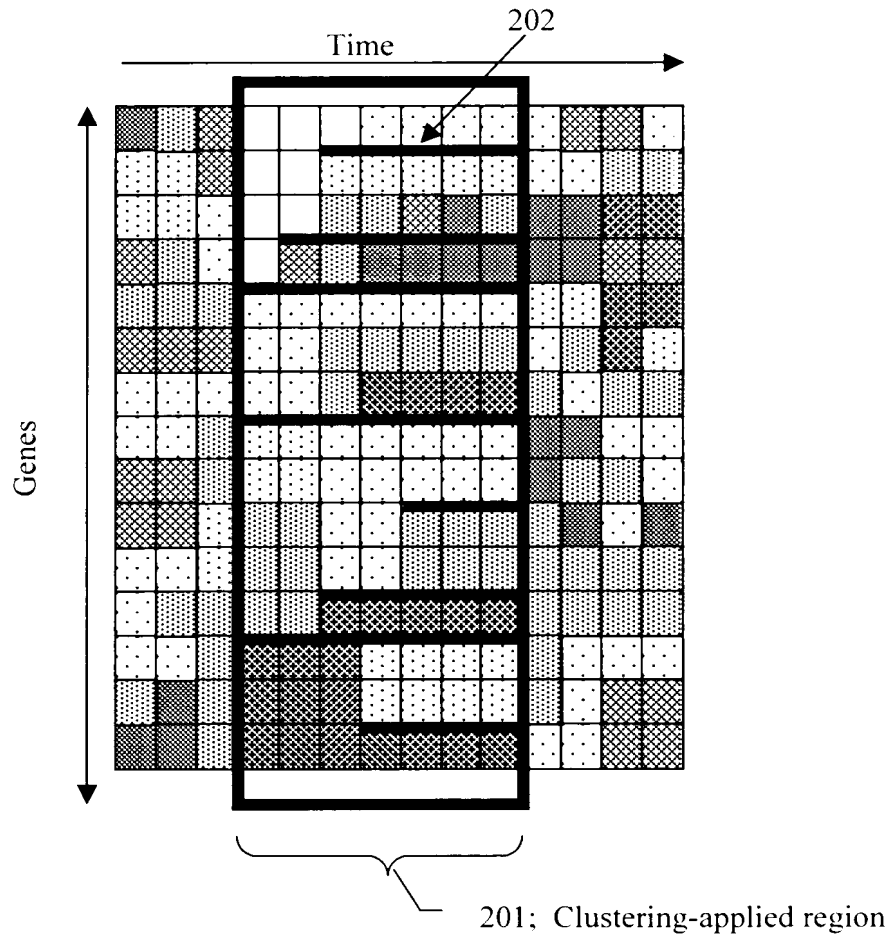


FIG. 2



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FIG.3

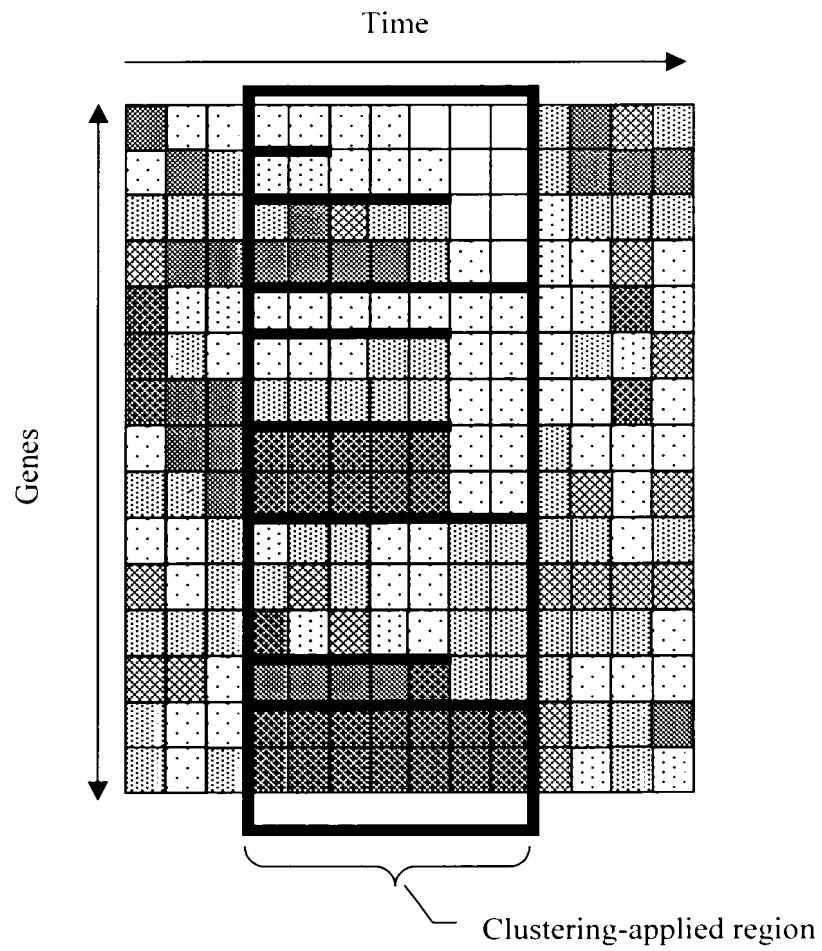


FIG. 4

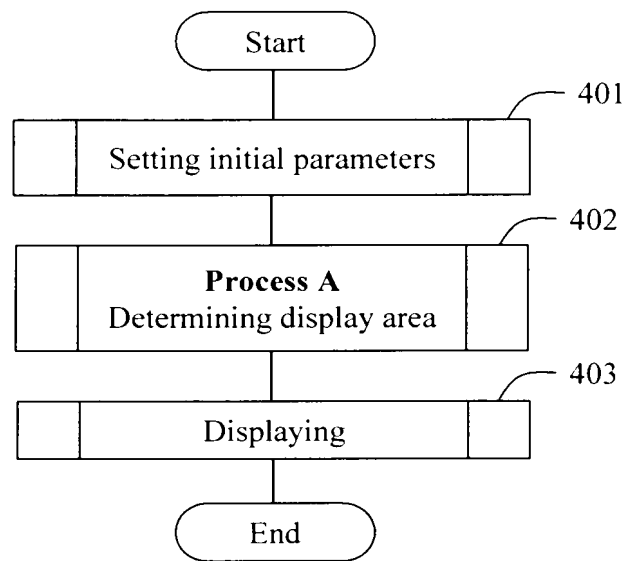


FIG. 5

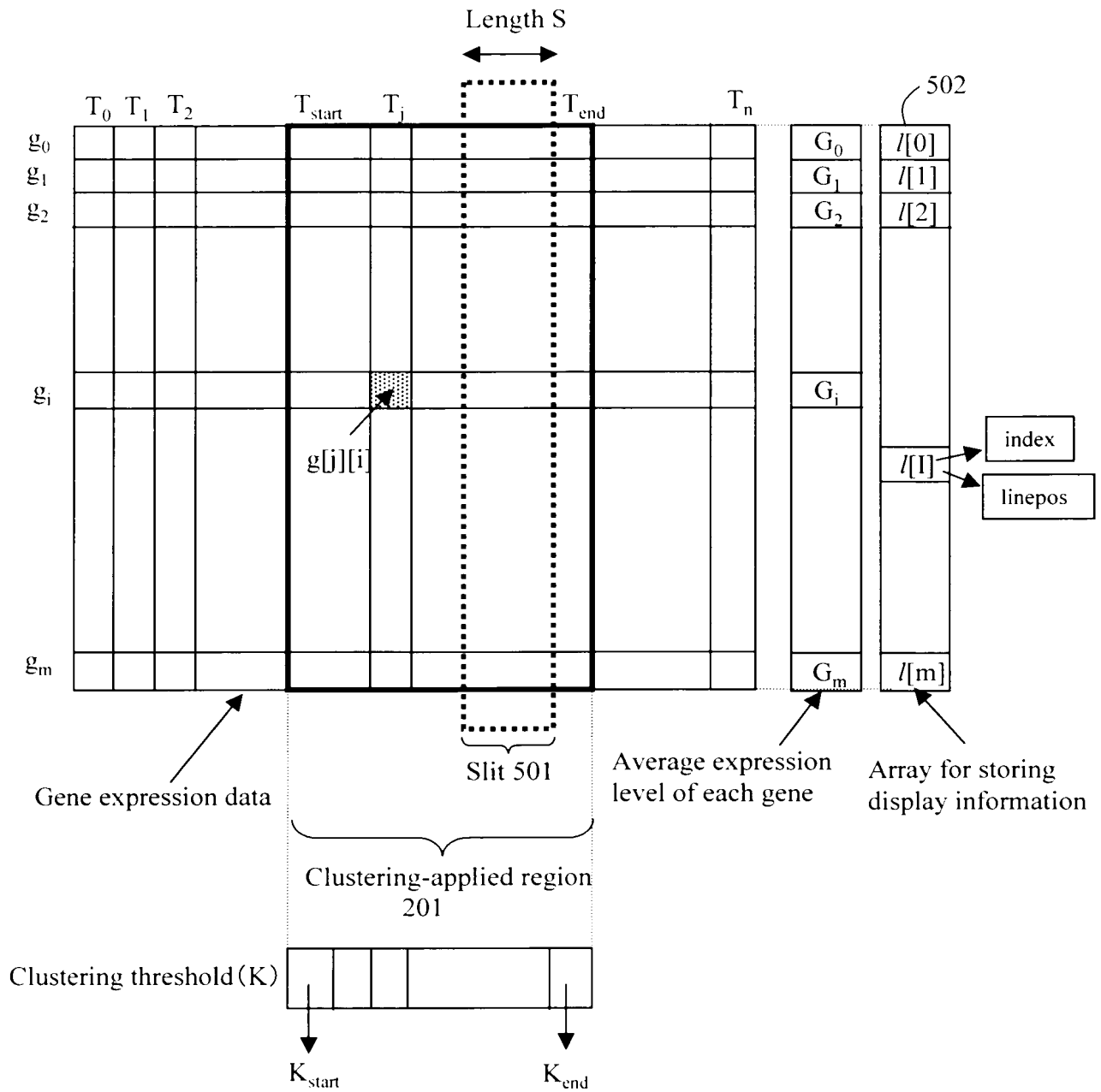


FIG. 6

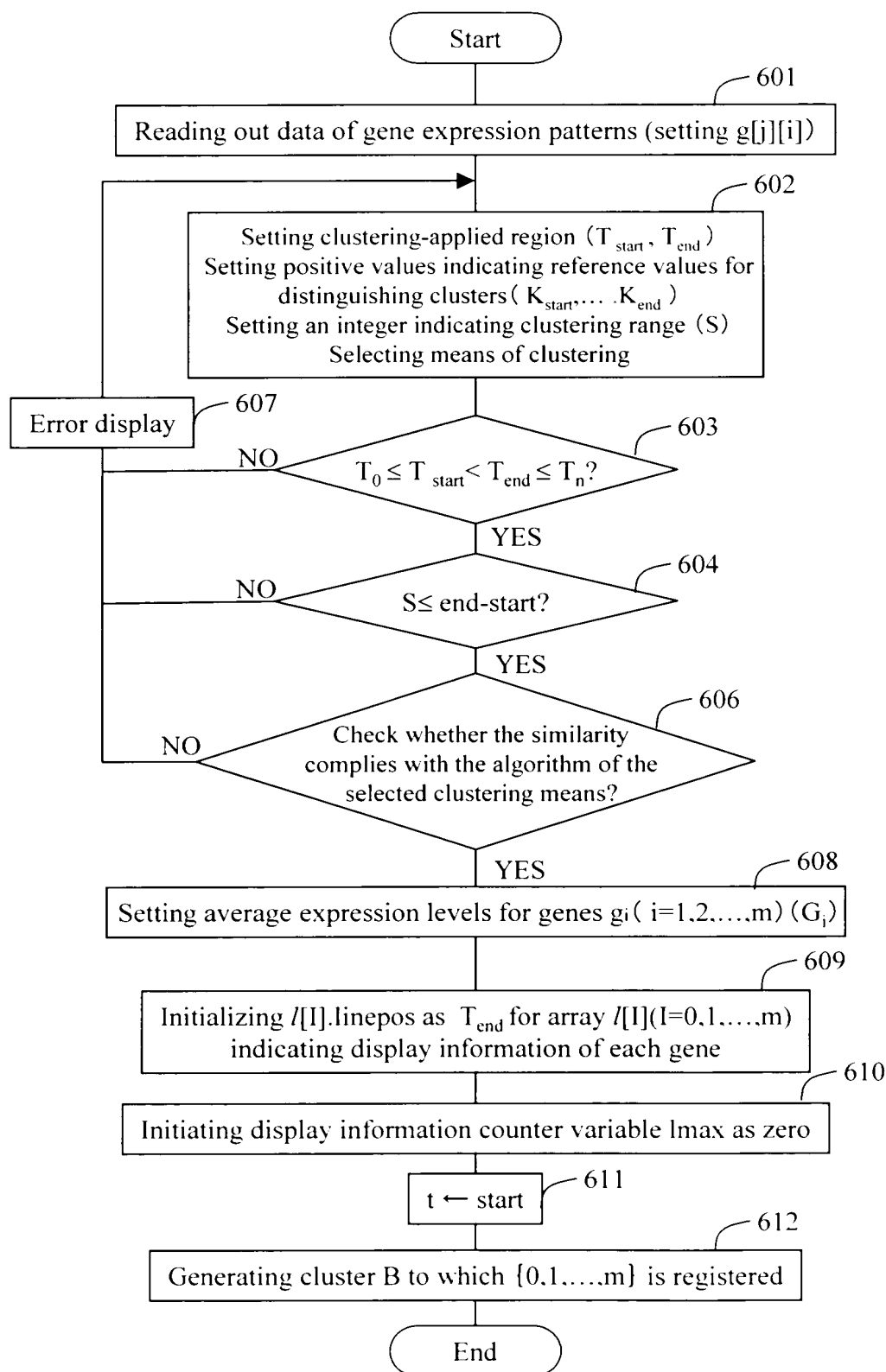


FIG. 7

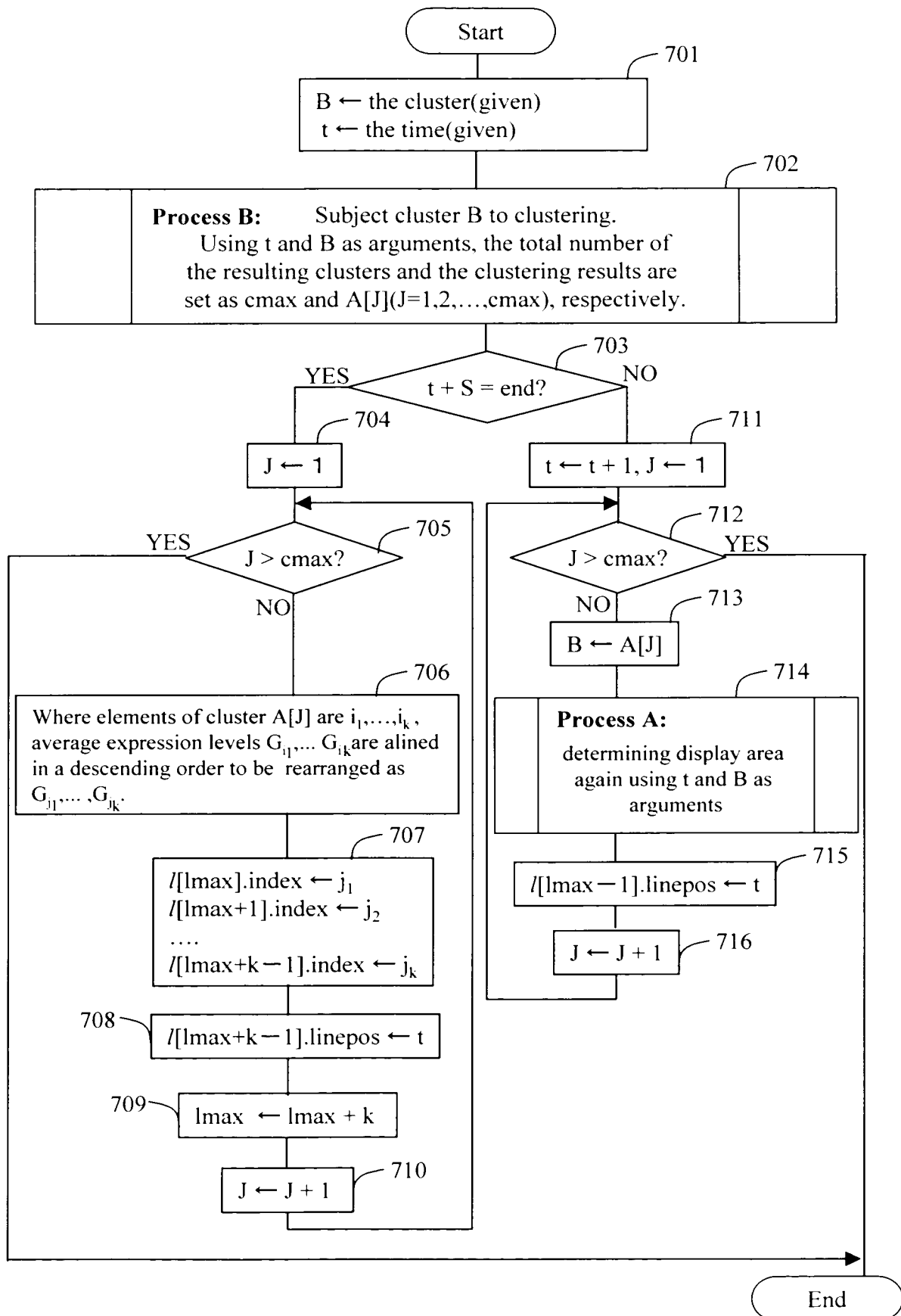


FIG. 8

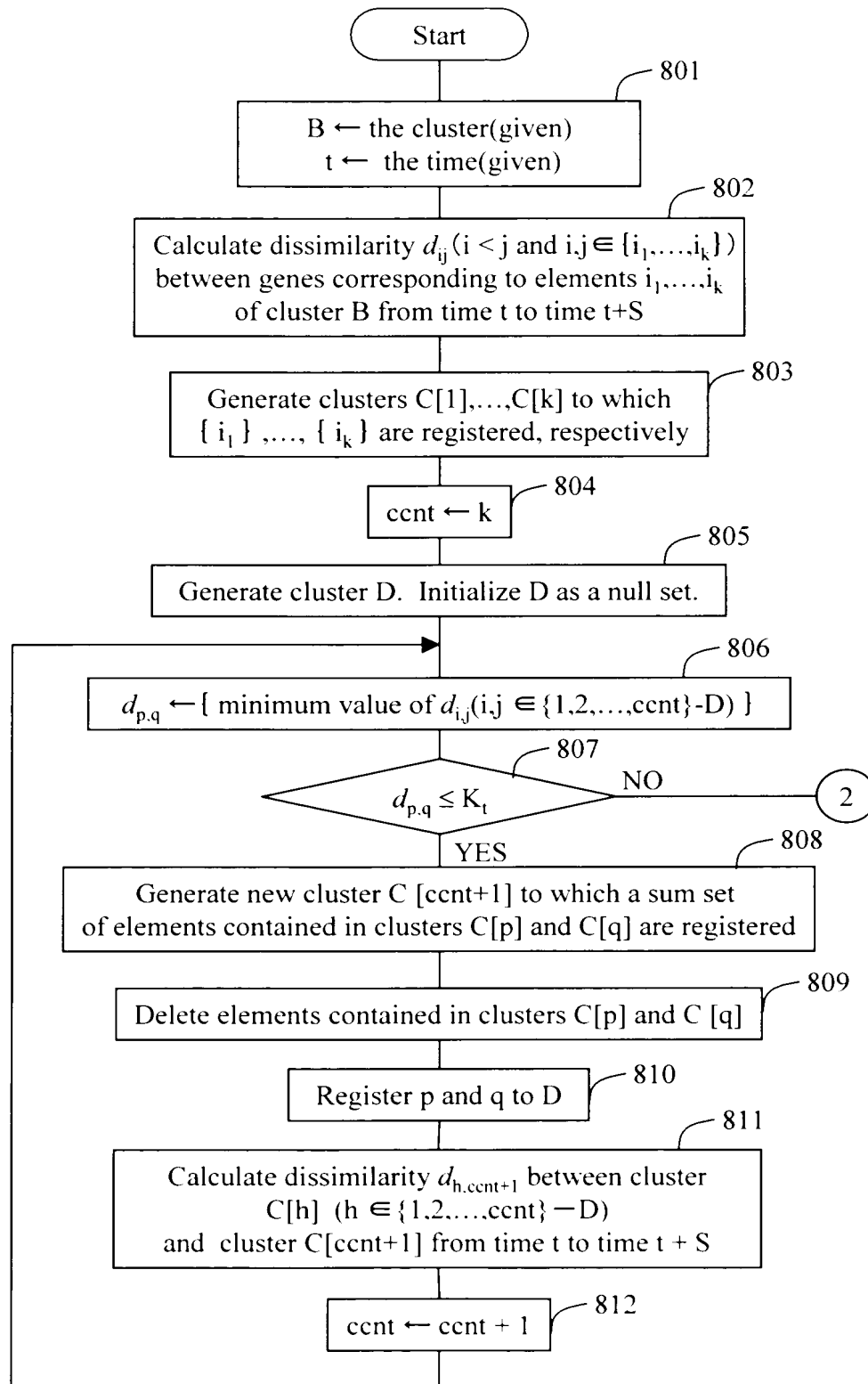


FIG. 9

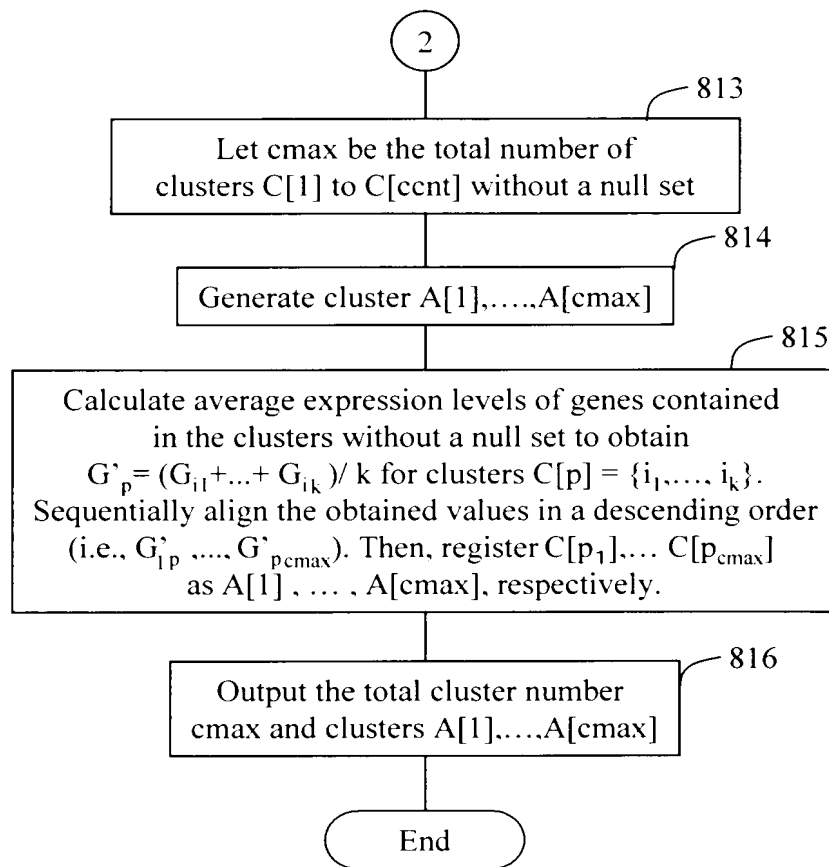
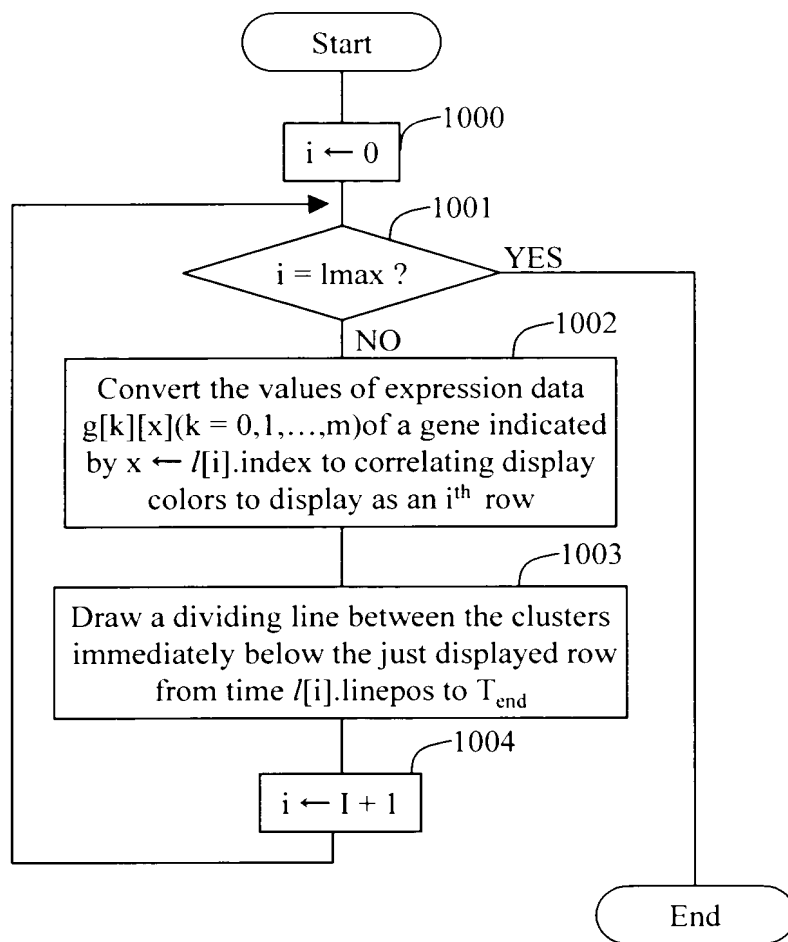


FIG. 10



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FIG.11

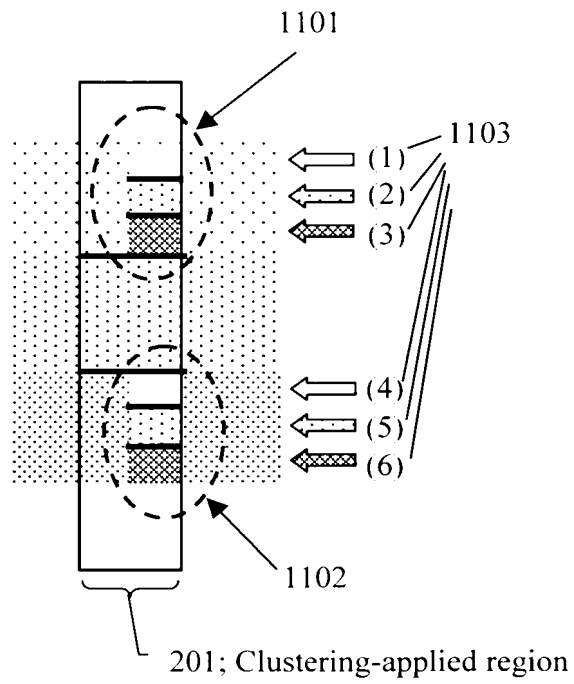


FIG.12

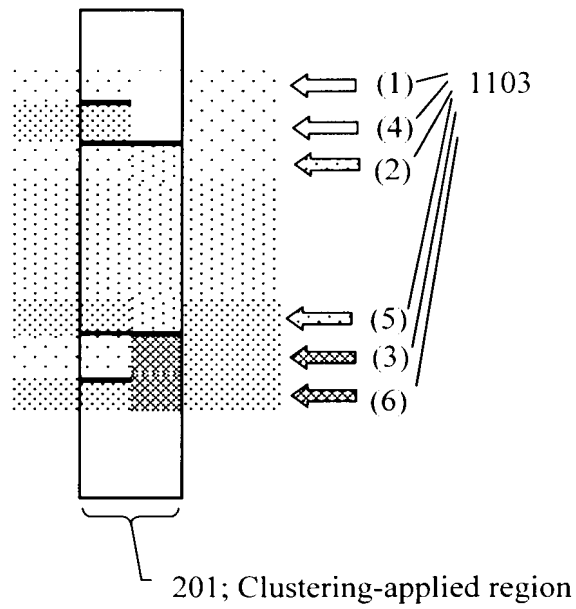


FIG.13

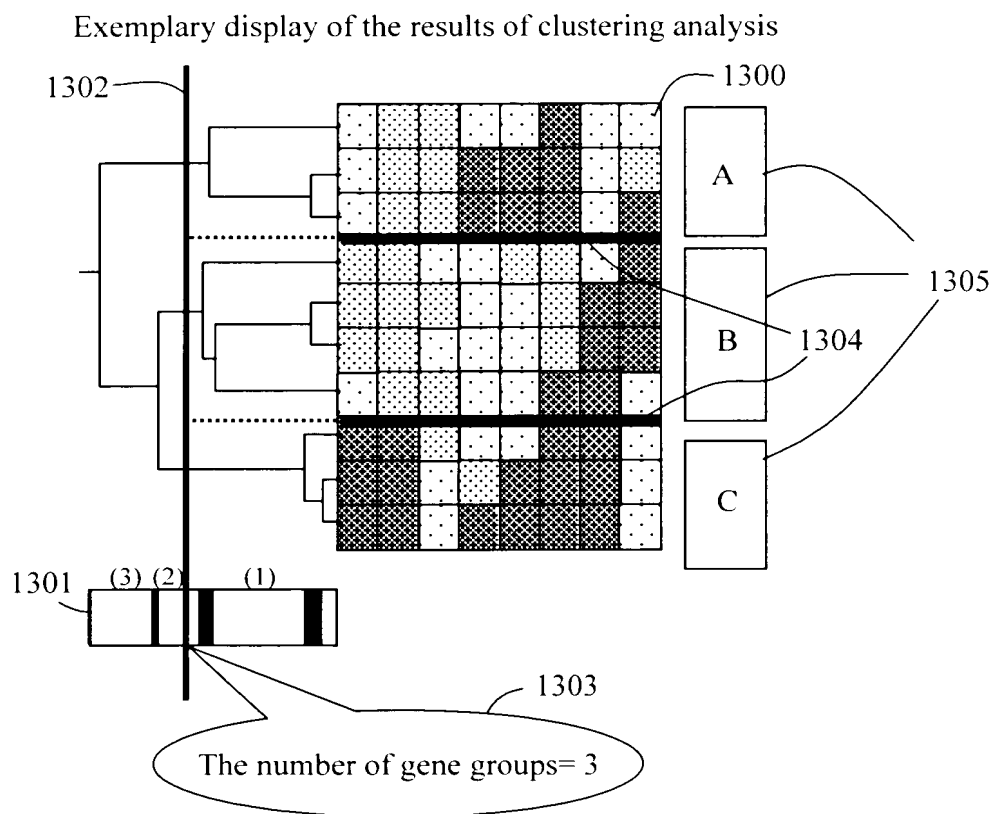


FIG.14

Example of gene expression pattern data

Gene ID (geneID)	Experiment cases									
	1	2	3	4	5	6	..	..	..	n
1	0	1	2	0	3	2	0			
2	1	2	0	0	2	2	1			
⋮										
⋮										
m	0	4	3	6	5	4	0			

1401

1402  
m number of  
vector data

FIG.15

Example of cluster structures

cluster

Members	Value
type	leaf
left	
right	
distance	
geneID	17
level	0

1501

cluster

Members	Value
type	node
left	●
right	●
distance	91
geneID	
level	5

cluster L  
cluster R

1502

FIG.16

Exemplary structure of cluster tree

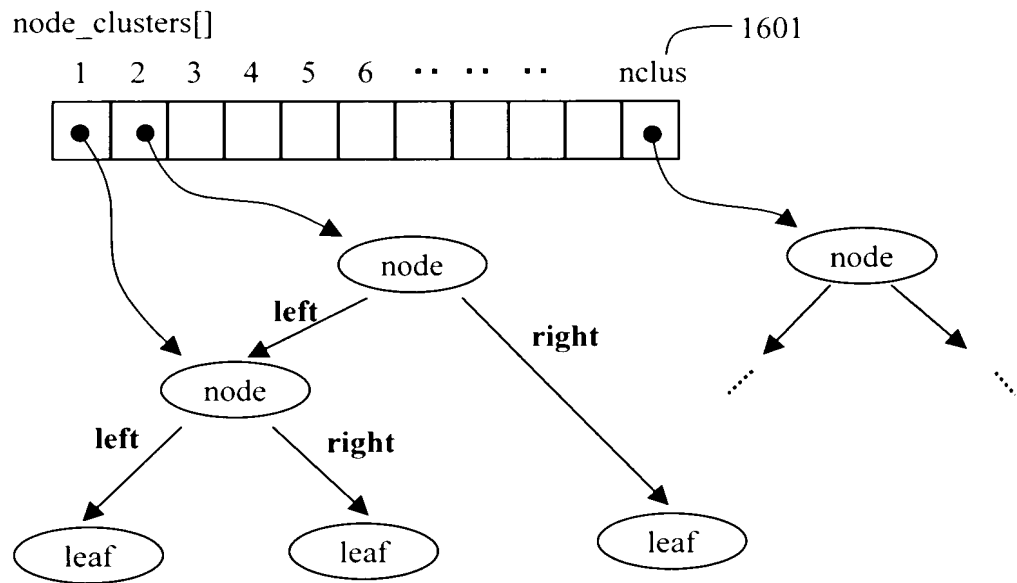


FIG.17

Exemplary display data

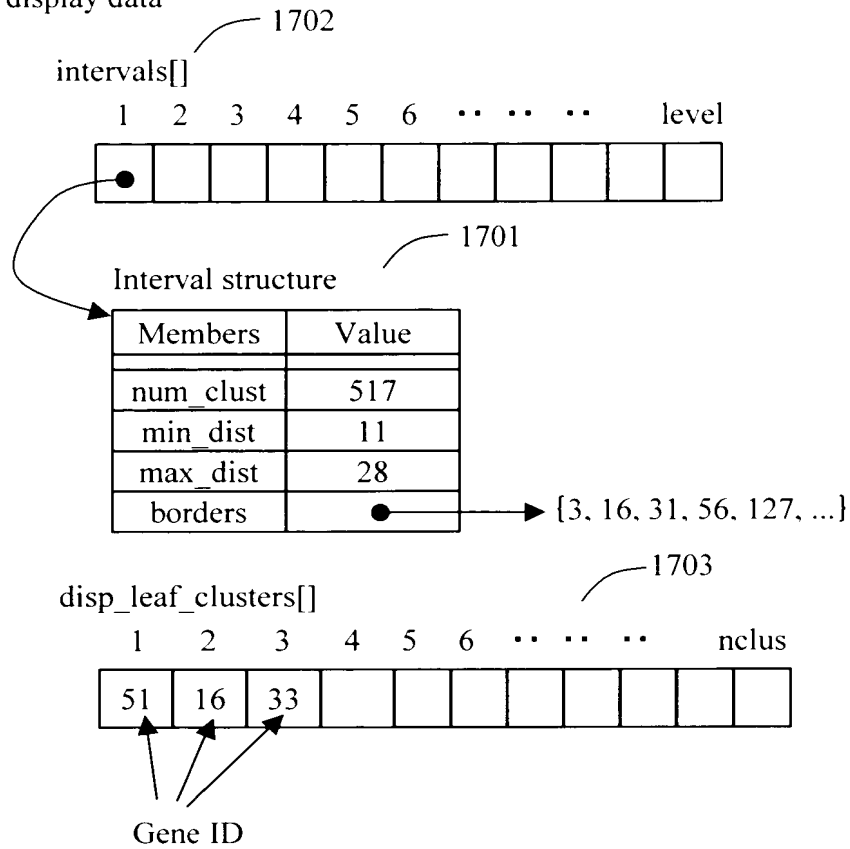


FIG.18

Flowchart of general process

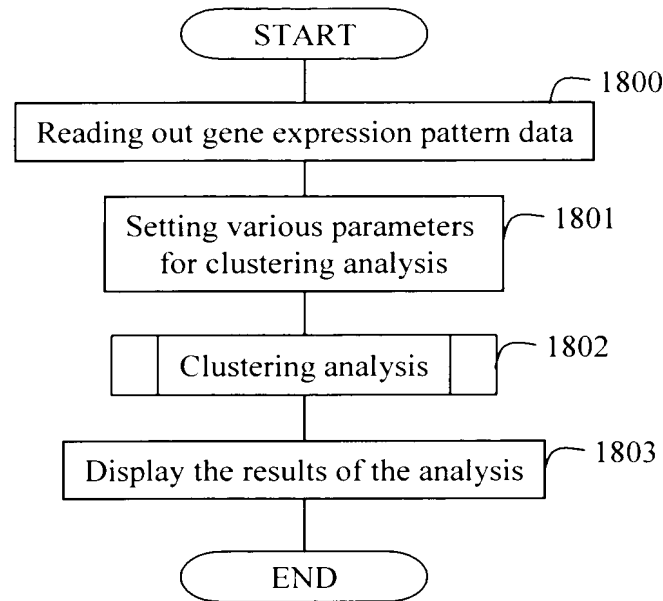


FIG.19

Detailed flowchart of clustering analysis (1: Generating cluster tree)

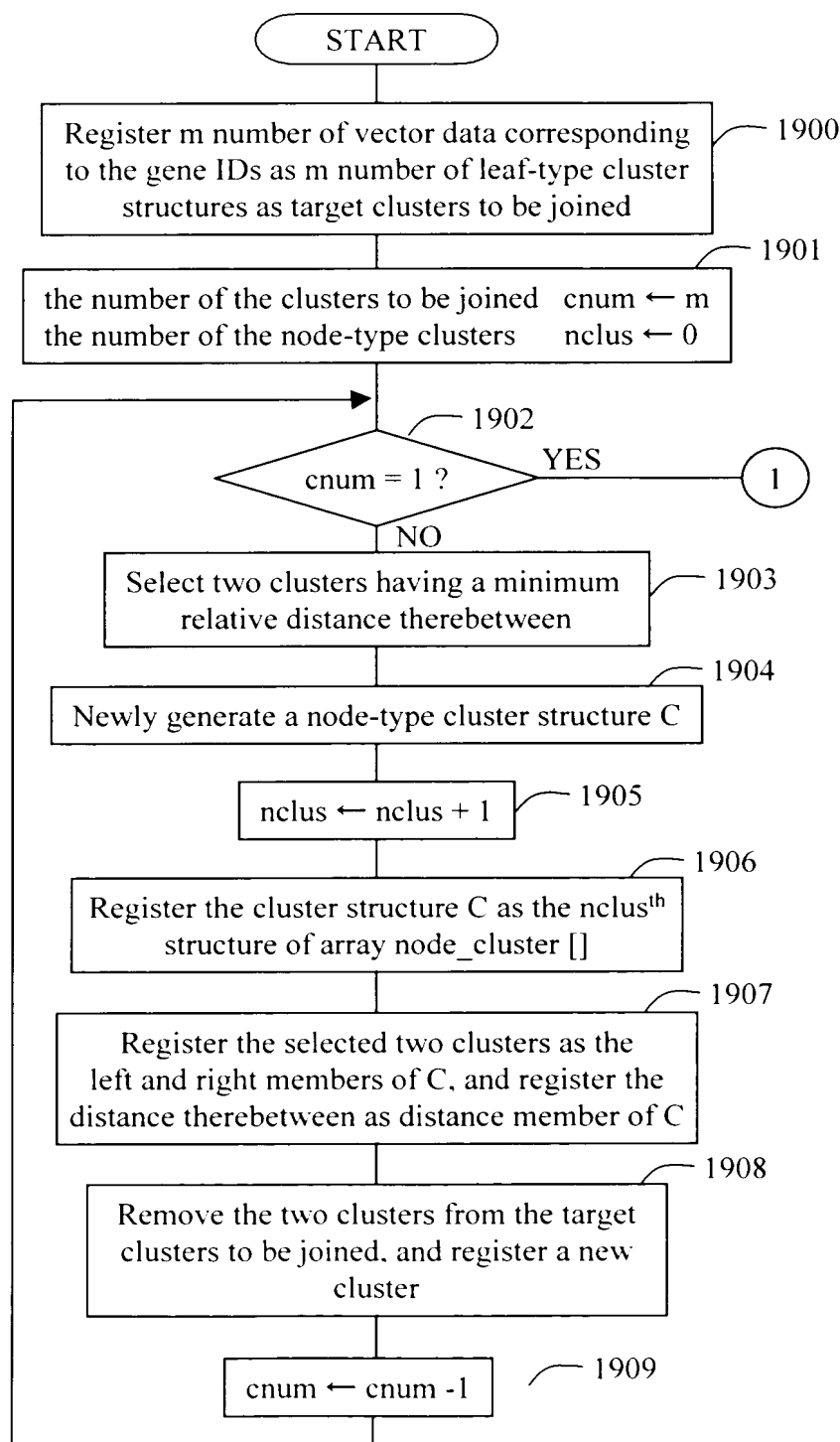
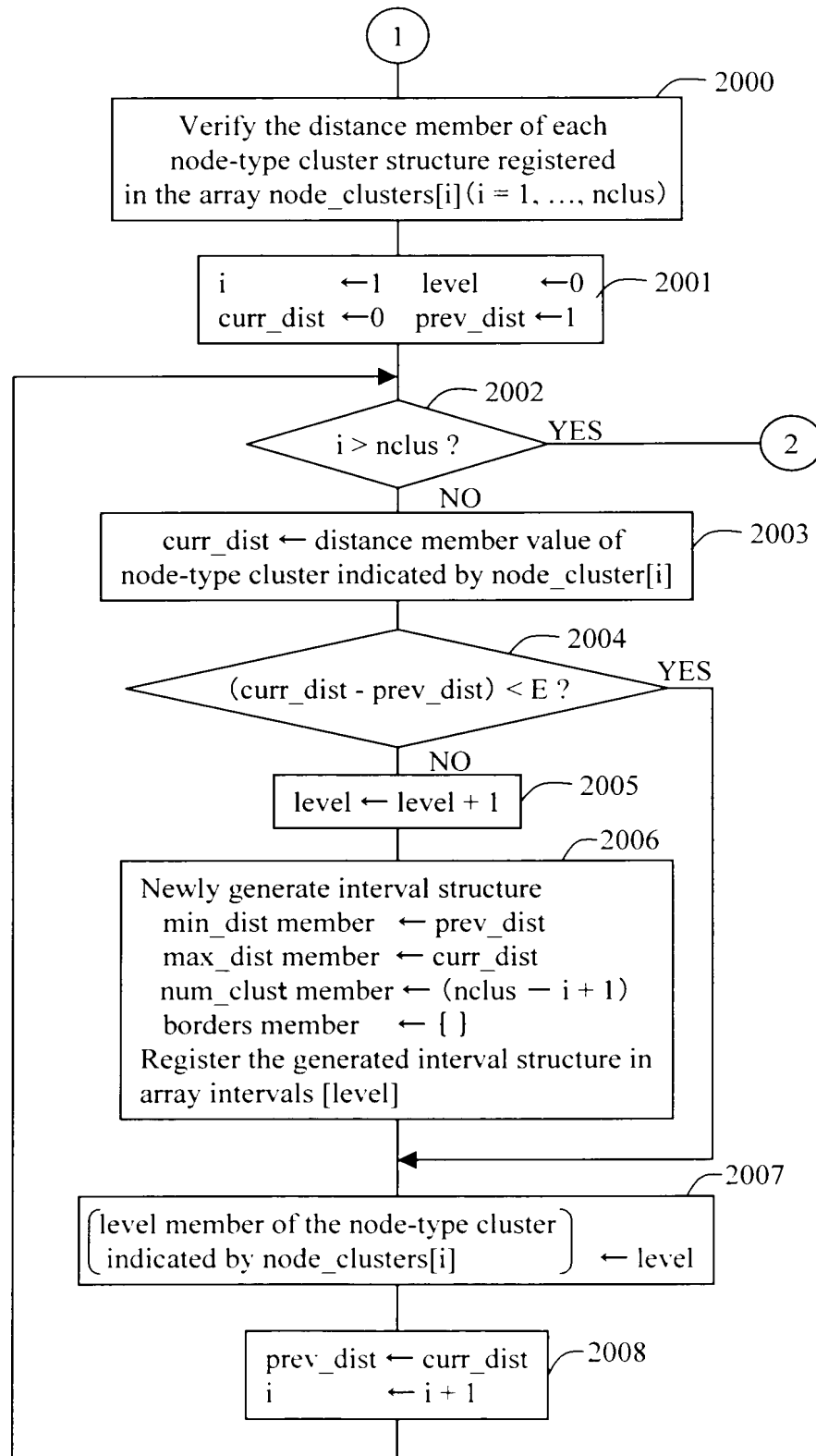


FIG.20

Detailed flowchart of clustering analysis (2: Setting cluster levels)



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FIG.21

Detailed flowchart of clustering analysis (3: Generating display data)

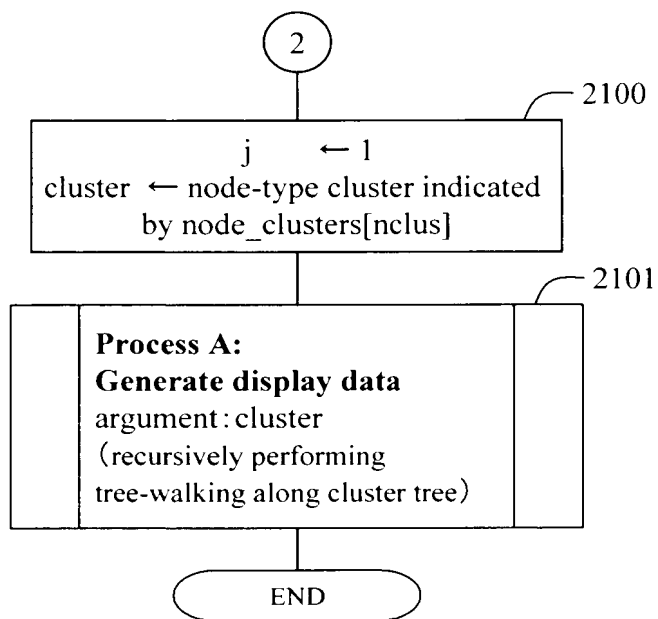
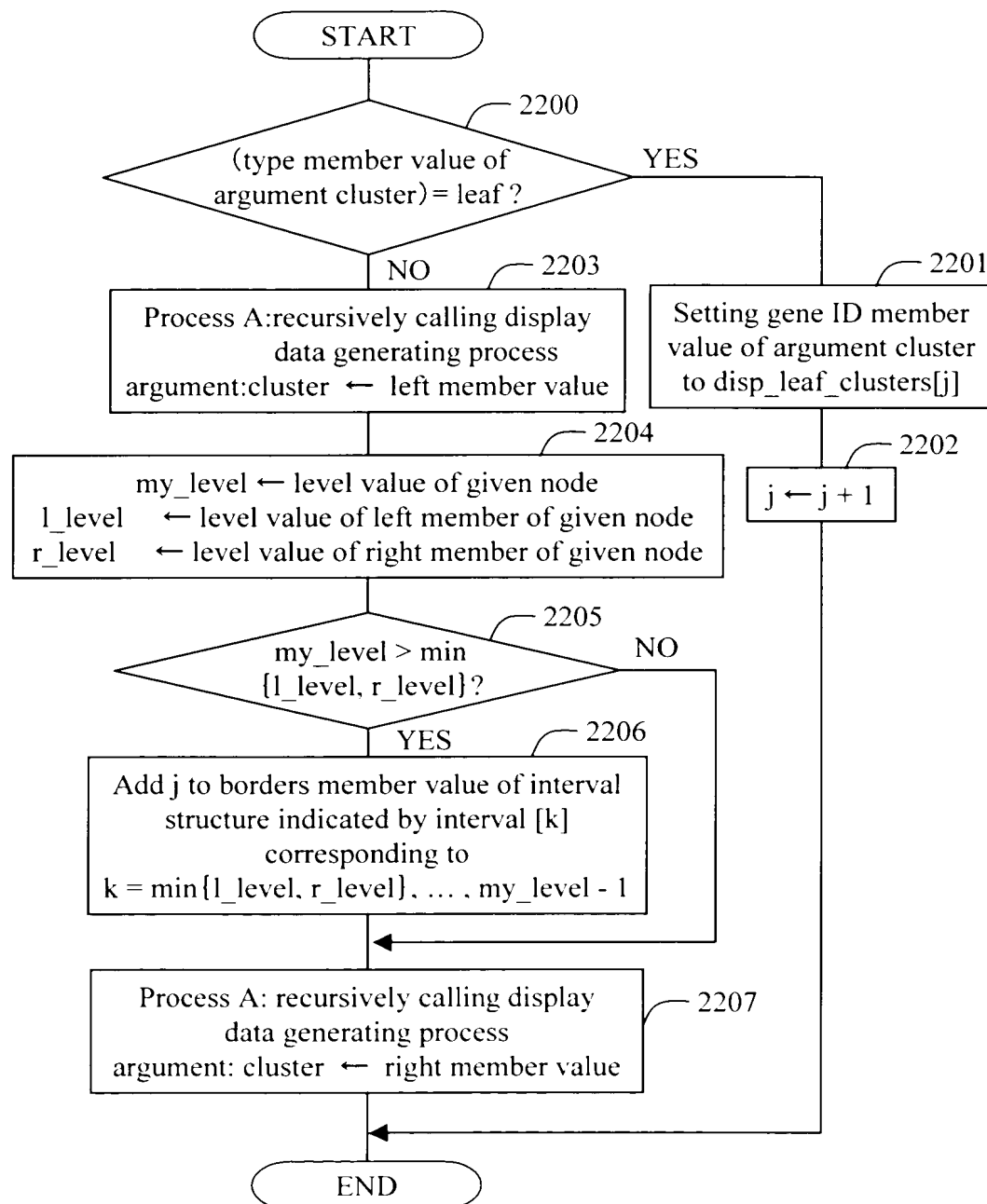


FIG.22

Flowchart of generating display data (Process A)



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FIG.23

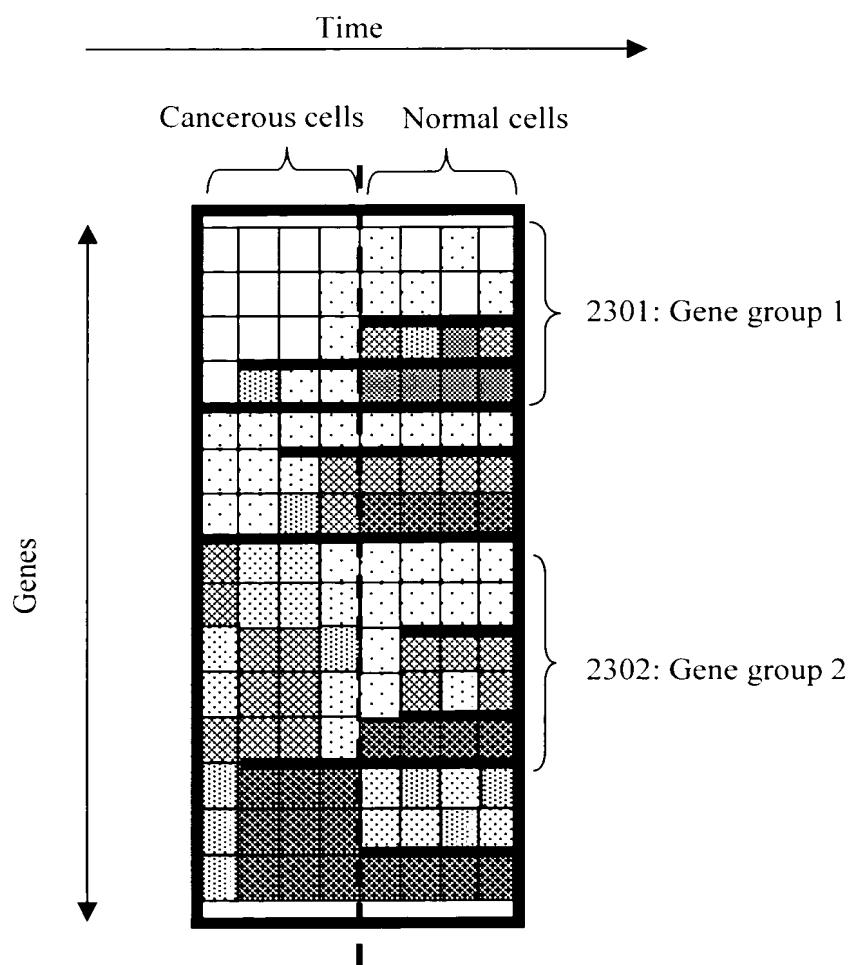


FIG.24

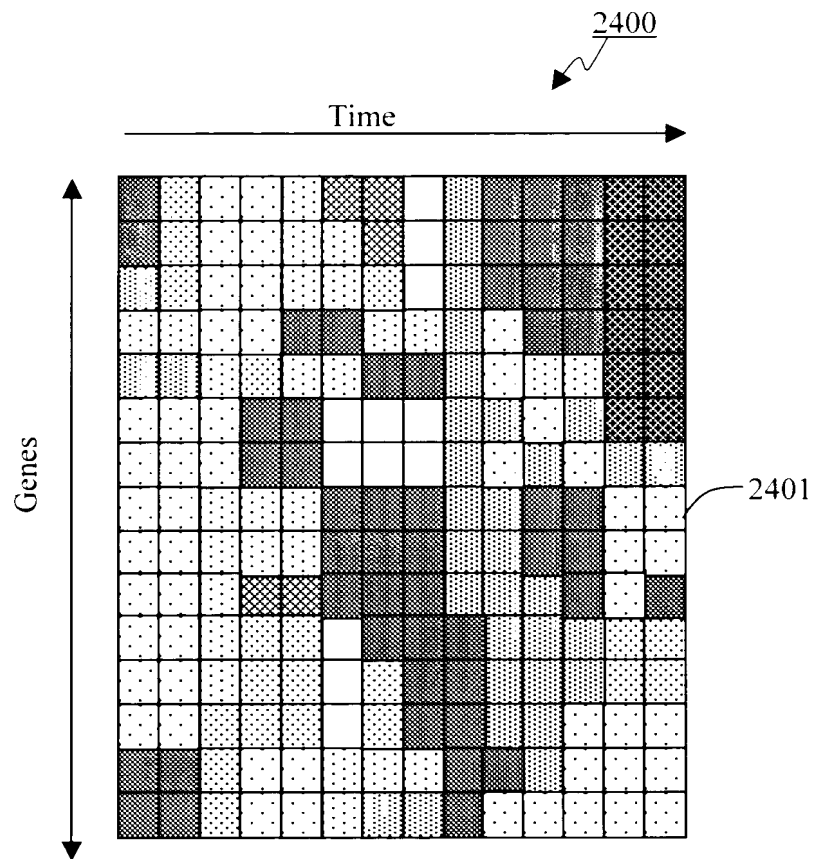


FIG.25

Exemplary display of standard clustering analysis

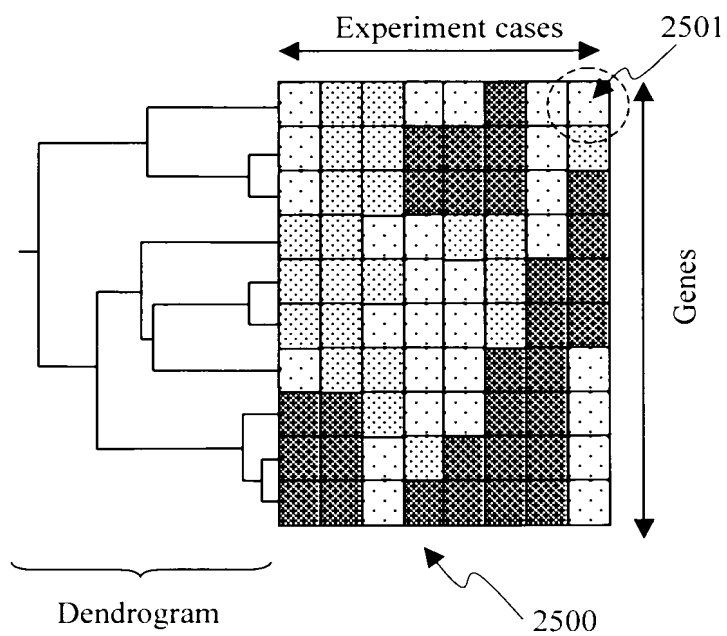


FIG.26

